

Application No.: 10/509,882
Amendment under 37 CFR 1.111
Reply to Office Action dated April 9, 2007
July 9, 2007

REMARKS

By this amendment, the specification and the abstract have been editorially amended, claims 1, 2, 8, 10, 11, 13, 14, 26, 27, 33, 35, 36, 38 and 39 have been amended, and claims 3-7, 9, 12, 15-25, 28-32, 34, 37, and 40-50 have been cancelled. Currently, claims 1, 2, 8, 10, 11, 13, 14, 26, 27, 33, 35, 36, 38 and 39 are pending in the application.

The indication that claims 11, 12, 36 and 37 contain allowable subject matter is noted with appreciation. By this amendment, allowable claim 12 and claim 9 have been cancelled and the subject matter of claims 9 and 12 have been incorporated into independent claim 1. Also, allowable claim 37 and claim 34 have been cancelled and the subject matter of claims 34 and 37 have been incorporated into independent claim 26.

The abstract was objected to because the phrase "recognition means" appeared in lines 1-2, 4, 7 and 9 of the abstract. By this amendment, the phrase "recognition means" has been amended to "recognition device". Also, the reference numerals and the indications of the recognition marks such as A, B, C, D have been deleted from the abstract. Therefore, applicants respectfully

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submit that the abstract is now proper and these objections should be withdrawn.

The specification was objected to because of several informalities: 1) By this amendment, the word "the" has been inserted between the words "of respective" on page 4, lines 23-24 of the specification as suggested by the Examiner.

2) By this amendment, the word "a" on page 5, line 23 of the specification between "recognize" and "accurate" has been amended to "an" as suggested by the Examiner.

3) By this amendment, the phrase "much taken" on page 7, line 17 of the specification has been amended to "used".

4) By this amendment, the word "Sumear" on page 7, lines 18, 20, 21 and 22 of the specification has been amended to "smear" as suggested by the Examiner.

5) By this amendment, the word "an" between the words "between" and "movement" on page 9, lines 4-5 of the specification has been amended to "a" as suggested by the Examiner.

Therefore, it is respectfully requested that these objections be withdrawn in view of the amendments to the specification. Additionally, the specification has been editorially amended to correct minor spelling and grammatical

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issues and the headings have been amended to the proper headings. It is respectfully submitted that no new matter has been added by these changes.

Claims 2, 9, 10, 11, 12, 27, 34, 35, 36 and 37 were objected to because of the following informalities: 1) in claims 2, 9, 27 and 34, the Examiner stated that the term "both objects" lacked antecedent basis. By this amendment, claims 1 and 26 (which substantially include the original subject matter of claims 9 and 34, respectively, have been amended to clarify that one object and the other object are referred to as "both objects". It is believed that this amendment provides antecedent basis for both objects.

2) In claim 2 and 27, the Examiner stated that the term "positioning recognition marks" lacked antecedent basis. By this amendment, the term "positioning recognition marks" has been amended to a respective "positioning recognition mark" to clarify this term.

3) In claim 9 and 34, the Examiner stated that the term "recognition marks" lacked antecedent basis. By this amendment, independent claims 1 and 26 have been amended to provide antecedent basis for the term "recognition marks".

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4) In claims 10, 11, 36 and 37, the Examiner stated that the phrase "reached to" was not grammatically correct. By this amendment, the phrase "reached to" has been amended to "reaches".

Therefore, it is respectfully submitted that in view of these amendments, these claim objections should be withdrawn.

Claims 1, 8, 26 and 33 were rejected under 35 USC 102(e) as being anticipated by Hayata et al. (U.S. Patent No. 6,762,848). Also, claims 2, 9, 10, 27, 34 and 35 were rejected under 35 USC 103(a) as being obvious over Hayata et al. in view of Arai et al. (JP 2000-279454). Further, claims 13, 14, 38 and 39 were rejected under 35 USC 103(a) as being obvious over Hayata et al. in view of Dykaar et al. (U.S. Patent No. 7,176,967).

By this amendment, the two independent claims 1 and 26 have been amended into allowable form. Specifically, independent claim 1 has been amended to include all of the limitations of allowable claim 12 and dependent claim 9. Also, independent claim 26 has been amended to include all of the limitations of allowable claim 37 and dependent claim 34.

Therefore, in view of foregoing amendments and remarks, it is respectfully submitted that claims 1, 2, 8, 10, 11, 13, 14, 26, 27, 33, 35, 36, 38 and 39 are allowable over the prior art of record. Thus, applicants respectfully submit that the


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application is now in condition for allowance and an action to this effect is respectfully requested.

If there are any questions or concerns regarding the amendments or these remarks, the Examiner is requested to telephone the undersigned at the telephone number listed below.

Respectfully submitted,

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